

Global Command and Control System (GCCS) HP Operating System and Unified Build 3.0.1.6G Application Installation Guide

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GCCS HP Installation Guide—CHANGE RECORD SHEET

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Table of Contents

1.	Introduction	1
2.	Pre-Installation Procedures.....	3
2.1	Installation Impact Information.....	3
2.2	Installation Order.....	5
	Worksheets	
3.	GCCS Operating System Installation	7
4.	GCCS Operating System Installation Configuration	13
5.	Application Segment Installation.....	17
6.	Workstation Configuration.....	25
6.1	TDBM Server Configuration.....	25
6.2	Populate the NIS Database from the NIS + Database (NIS Server Only)	25
6.3	UID Correlation Activation (If HP is TDBM Master).....	27

Chapter 1 Introduction

This manual provides instructions for installing the Global Command and Control System (GCCS) for the Hewlett Packard (HP) 9000 series workstations. These instructions include procedures for installing the HP Operating System and currently available software segments. They must be followed in the exact order as presented here. These guidelines are divided into the following chapters:

Pre-Installation Procedures

Presents procedures that must be performed before installing the GCCS Operating System. (Chapter 2)

GCCS Operating System Installation

Provides step-by-step instructions for installing the GCCS Operating System. (Chapter 3)

GCCS Operating System Installation Configuration

Provides instructions for configuring the GCCS Operating System installation. (Chapter 4)

Application Segment Installation

Explains which segments to install and their specific installation order. (Chapter 5)

Workstation Configuration

Explains how to complete TDBM Server and Client setup as well as user setup. (Chapter 6)

The GCCS concept is designed to support a wide range of mission applications through a diverse set of application “segments” executed under a Common Operating Environment. All segments that pass Defense Information Systems Agency (DISA) integration testing become part of the GCCS baseline. Testing of the segments and validation of the functionality is the responsibility of the Government executive agent that provides the segment.

While the HP version of GCCS can be installed independently from the Solaris version of GCCS, dependencies can be established between the HP and Solaris workstations in the system. The current Solaris installation establishes an Executive Manager server (EM Server) workstation and a Database Server (DB Server) workstation. The HP workstation should use the Solaris EM Server and DB Server as its EM and DB servers.

Chapter 2 Pre-Installation Procedures

The HP GCCS software release consists of one GCCS Operating System tape, one GCCS Application Software tape, and an optional Secret Data tape.

WARNING: Operating system and application software tapes from different releases are not necessarily compatible and should not be mixed. Check the tape labels for corresponding release numbers and dates if you are not sure.

2.1 Installation Impact Information

Installing the HP GCCS software package removes any previously installed software.

Review the following information before starting the installation procedure. The operating system installation takes about 45 minutes.

- ◆ **Power Off:** The installation procedures are geared to start from a powered-off system. For instructions on how to properly power off the workstation, refer to the Unified Build System Administrator's Guide.
- ◆ **Hardware Requirements:** To install the GCCS Operating System, both the tape drive and the HP keyboard must be connected to the workstation. (This limitation is based on HP-UX driver requirements for bootable operating system tapes.) If the tape drive and the keyboard are already connected, proceed with the installation. If you need to connect the tape drive and keyboard on the workstation you are loading, refer to the applicable hardware manuals.

For any site to have a single Solaris EM Server, some configuration changes need to be made before any HP workstations will function properly.

Once the HP workstation that is to act as the HP NIS Server has been determined, a data file on the Solaris side needs to be configured in order for the EM Server to recognize the designated NIS Server as a valid workstation. The HP workstation designated as the NIS Server will then be updated each time any user account manipulation occurs on the EM Server.

To accomplish this update, the `/h/EM/admin/security-scripts/Security_Servers` file needs to be edited on the EM Server to include the HP workstation. The `Security_Servers` data file should be modified to appear as below (the HP NIS Server hostname is `hp1` in this example is):

```

#Security Servers
#
#This file contains information about the host machines
#on the network which provide msql, database and password
#name services.
#
#Each host providing services of that type should be listed
#here for use by Security_Manager, an application for adding,
#changing and deleting user accounts and groups.
#
#Each host listed should be of the form:
#
#host:db_name:msql:rsh_command:file_path
#
#host      Host name of the machine.
#db_name    Sybase database name. A server without a
#           sybase database should have NONE here.
#msql      This field should contain TRUE or FALSE.
#           True means that this host acts as an msql
#           server for logins and profile information.
#rsh_command The full path of the remote shell command for
#           the host.
#file_path  Full pathname for the location of the served files.
#
#Lines beginning with a # are ignored, as are blank lines.

sun2:gccs:TRUE:/usr/bin/remsh:/h/EM/nis_files

#a sample HP entry should look like this
hp1:NONE:FALSE:/usr/ucb/rsh:/h/EM/nis_files

```

In addition, HP EM clients' host names must be entered into the following file on the EM Server machine:

/h/USERS/secman/Scripts/.rhosts

If this is not the first installation of this workstation, the time stamp file will need to be removed prior to installing the Executive Manager Segment. Execute the following command on the EM Server:

rm /h/data/global/EMDATA/msql/timestamp/hostname

2.2 Installation Order

To load GCCS on an HP workstation, follow the steps listed below in their exact order:

1. Fill out the Installation Requirements Worksheet provided in this manual.

Following this chapter are several blank copies of the HP Installation Requirements Worksheet. Additional copies may be reproduced as required.

2. Install the GCCS Operating System (OS). (Chapter 3)
3. Configure the GCCS OS installation. (Chapter 4)
4. Install the application segments. (Chapter 5)
5. Configure each workstation. (Chapter 6)

HP Installation Requirements Worksheet

Before beginning an installation of GCCS HP software, complete this form. The information recorded here is used during the load process.

NOTE: Do not begin an installation without completing this information. Your System Administrator will provide you with the information required to complete this form.

IP Address Information

Hostname: _____ Host IP Address: _____

Subnetwork Netmask: _____ Default Router IP Address: _____

Will DNS be used at the site? ☐ YES ☐ NO

DNS Domain Name: _____ Primary DNS Server Hostname: _____

Primary DNS Server IP Address: _____

Is this platform the Executive Manager Server? ☐ YES ☐ NO

EM Server IP Address: _____

Is this platform the mailhost? ☐ YES ☐ NO

TDBM Hostname: _____

Is this platform the NIS Server? ☐ YES ☐ NO

NIS Domain Name: _____ Home Page Web Server Hostname: _____

Other Systems:

Hostname: _____ IP Address: _____

Hostname: _____ IP Address: _____

Hostname: _____ IP Address: _____

Hostname: _____ IP Address: _____

UB Requirements

Is this system the TDBM Server? ☐ YES ☐ NO

System WAN UID: ____ ____ ____

Printers

Printer Type: _____ Device: _____

Printer Type: _____ Device: _____

HP Installation Requirements Worksheet

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IP Address Information

Hostname: _____ Host IP Address: _____

Subnetwork Netmask: _____ Default Router IP Address: _____

Will DNS be used at the site? ☐ YES ☐ NO

DNS Domain Name: _____ Primary DNS Server Hostname: _____

Primary DNS Server IP Address: _____

Is this platform the Executive Manager Server? ☐ YES ☐ NO

EM Server IP Address: _____

Is this platform the mailhost? ☐ YES ☐ NO

TDBM Hostname: _____

Is this platform the NIS Server? ☐ YES ☐ NO

NIS Domain Name: _____ Home Page Web Server Hostname: _____

Other Systems:

Hostname: _____ IP Address: _____

Hostname: _____ IP Address: _____

Hostname: _____ IP Address: _____

Hostname: _____ IP Address: _____

UB Requirements

Is this system the TDBM Server? ☐ YES ☐ NO

System WAN UID: ____ ____ ____

Printers

Printer Type: _____ Device: _____

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HP Installation Requirements Worksheet

Before beginning an installation of GCCS HP software, complete this form. The information recorded here is used during the load process.

NOTE: Do not begin an installation without completing this information. Your System Administrator will provide you with the information required to complete this form.

IP Address Information

Hostname: _____ Host IP Address: _____

Subnetwork Netmask: _____ Default Router IP Address: _____

Will DNS be used at the site? ☐ YES ☐ NO

DNS Domain Name: _____ Primary DNS Server Hostname: _____

Primary DNS Server IP Address: _____

Is this platform the Executive Manager Server? ☐ YES ☐ NO

EM Server IP Address: _____

Is this platform the mailhost? ☐ YES ☐ NO

TDBM Hostname: _____

Is this platform the NIS Server? ☐ YES ☐ NO

NIS Domain Name: _____ Home Page Web Server Hostname: _____

Other Systems:

Hostname: _____ IP Address: _____

Hostname: _____ IP Address: _____

Hostname: _____ IP Address: _____

Hostname: _____ IP Address: _____

UB Requirements

Is this system the TDBM Server? ☐ YES ☐ NO

System WAN UID: ____ ____ ____

Printers

Printer Type: _____ Device: _____

Printer Type: _____ Device: _____

HP Installation Requirements Worksheet

Before beginning an installation of GCCS HP software, complete this form. The information recorded here is used during the load process.

NOTE: Do not begin an installation without completing this information. Your System Administrator will provide you with the information required to complete this form.

IP Address Information

Hostname: _____ Host IP Address: _____

Subnetwork Netmask: _____ Default Router IP Address: _____

Will DNS be used at the site? ☐ YES ☐ NO

DNS Domain Name: _____ Primary DNS Server Hostname: _____

Primary DNS Server IP Address: _____

Is this platform the Executive Manager Server? ☐ YES ☐ NO

EM Server IP Address: _____

Is this platform the mailhost? ☐ YES ☐ NO

TDBM Hostname: _____

Is this platform the NIS Server? ☐ YES ☐ NO

NIS Domain Name: _____ Home Page Web Server Hostname: _____

Other Systems:

Hostname: _____ IP Address: _____

Hostname: _____ IP Address: _____

Hostname: _____ IP Address: _____

Hostname: _____ IP Address: _____

UB Requirements

Is this system the TDBM Server? ☐ YES ☐ NO

System WAN UID: ____ ____ ____

Printers

Printer Type: _____ Device: _____

Printer Type: _____ Device: _____

Chapter 3 GCCS Operating System Installation

This section describes how to install the GCCS HP-UX Operating System on an HP workstation.

NOTE: All steps must be performed in the exact order presented for the GCCS Operating System to be installed correctly. *Nothing may be skipped.*

This procedure takes about 45 minutes. See the *Unified Build System Administrator's Guide* for conventions used in these instructions.

To install the OS:

1. Ensure the HP workstation is turned off.

WARNING: Read Step 2 through Step 4 carefully before continuing with this procedure. Because the length of time between Step 3 and Step 4 is minimal, hold the [Esc] key immediately when instructed. If you delay, the system boots from the first device it finds, which may not be the desired device.

2. Turn on the workstation.
3. On some HP workstations, the monitor flashes red, green, and blue upon start-up. If the workstation you are loading does this, press and hold down the [Esc] key until the menu below appears.

Certain power-saver monitors do not flash colors on start-up. On these machines, *as soon as text appears*, press and hold down the [Esc] key until the menu below appears.

Once the menu appears, release the [Esc] key.

While the specifics (i.e., the MB of memory) differ because of different machine configurations, a menu similar to the one below appears:

```
PDC ROM rev. 1.2
IODC ROM rev. 1.0
192 MB of memory configured and tested.
Selecting a system to boot.
To stop selection process, press and hold the ESCAPE key.
Selection process stopped.
Searching for Potential Boot Devices.
To terminate search, press and hold the ESCAPE key.
Search terminated.
b)  Boot from specified device
s)  Search for bootable devices
a)  Enter Boot Administration mode
x)  Exit and continue boot sequence
?)  Help
Select from menu:
```

4. Insert the GCCS Operating System tape into the tape drive. Wait for the lights on the tape drive to stop blinking.
5. At the Select from menu: prompt, enter **s** and press [Return] to search for your machine devices. The following text appears:

```
Searching for Devices with Bootable Media
To terminate search, press and hold the ESCAPE key
```

Do *not* press [Esc]. Allow the machine to search for devices. The following text appears:

```
HP-UX INSTALLATION UTILITY -- MAIN MENU
Device Selection      Device Path      Device Type and
                        Utilities
P0                    scsi.6.0        HP C3010
                        IPL
P1                    scsi.3.0        HP HP35480A
                        IPL

Enter boot selection, (h)elp, or e(x)it:
```

The tape drive attached to your workstation should be listed as `scsi.3.0` in the Device Path column. If your tape type is not `scsi.3.0`, you need to change its device switches to `scsi.3.0`.

6. To reboot from SCSI address 3.0, enter `scsi.3.0` and press [Return].

The screen displays several messages to show the installation processes' progress. When the EISA configuration is complete, the following text appears:

```
EISA configuration has completed.  Following the completion of a
successful HP-UX installation, please check the
"etc/eisa/config.err" file for any EISA configuration messages.

Press any key to continue>
```

7. Press [Return].

The following text appears:

```
Welcome to HP-UX install.  There are basically 4 steps to install-
ing HP-UX, which this and another utility will lead you
through.
Step 1) Select the root "destination disk" and its
characteristics.
Step 2) Optionally modify the file system parameters pre-set
for your chosen destination disk.
Step 3) Optionally choose any other disks to be added to the
system.
This may be useful if root disk space is insufficient.
Step 4) Choose the filesets (functional groups of files) which
you want loaded onto the destination disk.
A menu driven interface will guide you through the above steps.
Press any key to continue>
```

8. Press [Return].

The system displays the HP-UX INSTALLATION UTILITY -- ROOT DESTINATION MENU (as shown below). Read the information carefully. The disk with *Bus Address 6* should be the default disk; it is *always* the preferred disk.

```
HP-UX INSTALLATION UTILITY -- ROOT DESTINATION MENU

Select one of the following disks (name and system location)
connected
to your system to be the ROOT destination device for this
installation.
Enter the item number, or highlight the item using the arrow
keys and
press [Return].

If the desired ROOT disk is not listed, make sure it is
connected properly and turned on, then select the "Search
Again" item.
If your disk is STILL not recognized, you can use the "Other
disk" item
to manually enter the Disk address.
```

	Disk	Slot Number	Bus Addr	Func Num
1.	HP C3010	at	0 6	1
2.	HP C3010	at	0 5	1
3.	Search Again			
4.	Other disk			
5.	Exit Install			

```
Enter selection [1]
```

9. Accept the default disk by pressing [Return].

The installation program checks the selected disk. The following text appears:

```
Note: There may be an HP-UX system already on this disk.
<Press any key to continue.>
```

10. Press [Return]. The following text appears:

```
Do you want the root filesystem to allow long filenames? [y]
```

11. Press [Return].

The HP-UX INSTALLATION UTILITY -- MAIN MENU(shown below) appears:

```
HP-UX INSTALLATION UTILITY -- MAIN MENU

          Major      Slot      Bus      Function
          Number      Address      Number      Model      Mount
          -----
          -----
- - - - -
Source:      -1      0      3      1      Tape
Root Device:  7      0      6      1      HP C3010      /

If the destination device shown above is correct, and you
do not want to modify filesystem parameters or add any
additional
non-root filesystems, select the CONTINUE option below.

1.  Continue Installation Process.
2.  Change ROOT Destination Device.
3.  Change ROOT Filesystem Type.
4.  Change ROOT Filesystem Parameters.
5.  Add a non-root Disk/Filesystem.
6.  Modify/Display non-root Disks/Filesystems.
7.  EXIT the Installation.

Enter selection [1]
```

12. To continue the installation process, accept the default by pressing [Return].

The Swap Space Verificationscreen appears, as well as a prompt for the root disk swap space.

```
SWAP SPACE VERIFICATION

Verify that the root disk swap space is sufficient and change if
necessary.
Root Disk Swap Space (in 1024 byte blocks): [183766]

CTRL-X=Done,      CTRL-U=Undo changes,  ?=Help on current item
```

13. Enter a swap space of **159,000** and press [Return].

```
Note: Swap space value will be rounded to match system constraints.
(Press any key to continue.)
```

14. Press [Return]. Press [Control] and x. The following text appears:

Major Number	Slot Number	Bus Address	Function Number	Model	Mount Point
Root Device: 7	0	6	1	HP C3010	/
Continuing the installation will destroy the contents of the disk listed above.					
Do you wish to continue? (y/n) []					

15. Enter **y** to continue.

The system begins to unpack the tar files that comprise the operating system. A series of messages appears on the screen, giving a progression of the process. This unpacking process continues for about five minutes. At the end of the process the messages stop and the tar files are completely unpacked from the tape. The system then reboots and begins the GCCS operating system installation.

16. Wait for the GCCS operating system installation to complete (about 40 minutes).

17. When the operating system is installed, the system proceeds to the first prompt to configure the installation (Chapter 4).

Chapter 4 GCCS Operating System Installation Configuration

This section describes how to configure the GCCS operating system installation. Refer to your completed HP Installation Requirements Worksheet for the correct responses to the prompts that appear in the steps below. Use the arrow and tab keys to select responses. Sample entries are listed in parentheses in the step following each prompt.

Answer the following questions as indicated.

NOTE: At the various verification steps in this configuration script, if you detect an error in your response to a question, entering **n** will take you through a “loop” which will allow you to correct the error before proceeding to the next step.

Enter the system name, then press [Return]

1. Enter the system name (8-character maximum) (example: sherlock) and press [Return].

You have entered <hostname> as the system name. Is this correct?

2. Verify the hostname as the system name you previously entered, enter **y**, and press [Return].

Enter your internet protocol address, then press [Return].

3. Enter the IP address (example: 129.221.146.12) and press [Return].

You have chosen <IP address> as the IP address for this system. Is this correct?

4. Verify the IP address, enter **y**, and press [Return].

Does this workstation's network have subnetworks?

5. Enter **y** and press [Return].

Enter the subnetwork mask, then press [Return].

6. Enter the subnetwork mask (example: 255.255.255.0) and press [Return].

You have chosen <subnetwork mask> for the system. Is this correct?

7. Verify the subnetwork mask, enter **y**, and press [Return].

Enter the network (IP) address of the default router, then press [Return].

8. Enter the IP address of the default router (example: 121.0.0.254) and press [Return].

You have specified the following default network router: Router Address <router address>. Is this correct?

9. Verify the router address, enter **y**, and press [Return].

Is DNS being used at this site?

10. Enter **y** and press [Return].

Enter the DNS domain name, then press [Return].

11. Enter the DNS domain name (example: hqbosnia.disa.smil.mil) and press [Return].

Enter the DNS server hostname, then press [Return].

12. Enter the DNS server hostname (example: watson) and press [Return].

Enter the network (IP) address of <DNS server hostname>, then press [Return].

13. Enter the IP address of the DNS server (example: 121.147.165.40) and press [Return].

You have specified the following DNS server information:

DNS Domain:

DNS Server:

DNS Server Address:

Is this correct?

14. Verify the DNS server information, enter **y**, and press [Return].

Is this the Executive Manager server?

15. Enter **n** and press [Return].

Enter the IP address of your EM server.

16. Enter the IP address of the EM server (example: 121.0.0.5) and press [Return].

You entered <IP address>. Is this correct?

17. Verify the IP address, enter **y**, and press [Return].

```
Is this platform the mailhost?
```

18. Enter **n** and press [Return].

```
The following procedure enables you to set the timezone...
```

```
Enter the number for your location (1-7), then press [Return].
```

19. Enter the number which corresponds to the desired geographic region (example: 1.Europe) and press [Return].

```
Enter your time zone.
```

20. Enter your time zone (example: GMT) and press [Return].

```
The timezone entered is <Eastern Standard/Daylight>. Is this correct?
```

21. Verify the time zone, enter **y**, and press [Return].

```
The current system time is <XX>.
Is this correct?
```

22. Enter **n** and press [Return].

```
"You will be prompted for the date and time..." if the current time
is XX.
```

23. Enter values for the current month, day, year, hour, and minute when prompted. Press [Return].

At this point, the screen clears and remains black while the system processes the configuration information. When it is done, the following text appears:

```
Installation complete.
Rebooting system to make changes effective...
```

24. The machine reboots, and after a few minutes, you see the following:

```
Possible configuration(s):
```

- (1) One keyboard with a single monitor
- (2) One keyboard with dual monitors

```
Select the number that corresponds to your configuration:
```

25. Enter **1** and press [Return].

Option 1 was selected.
Is this correct (y/n)?

26. Enter **y** and press [Return].

The operating system installation configuration process is now complete. At this point, the workstation is ready to be loaded with the GCCS application segments (Chapter 5).

Chapter 5 Application Segment Installation

Install the following application segments in accordance with the steps in this chapter:

WARNING: These applications must be loaded in this exact order. If application segments are loaded in the wrong order, the GCCS load will fail and the workstation will have to be reloaded, starting with the operating system.

- ◆ GCCS COE
- ◆ EXEC MGR
- ◆ JMTK
- ◆ UBApps
- ◆ JMCISApps
- ◆ PRINTER
- ◆ Any additional HP-based GCCS Application Segments

For more information regarding segment installation and the SEGMENT INSTALLER window and the Disk Manager window, refer to the Unified Build System Administrator's Guide.

1. Login as **sysadmin** (default password **vinson**), open an xterm and perform the following:
 - a. At the prompt, enter **vi /etc/hosts**.
 - b. Enter **dG** to delete from the cursor to the end of the file.
 - c. Press [ESC].
 - d. Enter **:wq!** and press [Return].
 - e. At the prompt, enter **exit** to logout.
2. Update the local hosts file to reflect the local hosts which will be allowed to communicate with your system (trusted hosts) by using the Edit Local Hosts window. Add entries for the local host, the EM Server (including the alias **emserver**), the DB Server (including the alias **dbserver**), and the loopback address (127.0.0.1 with the following aliases: **localhost**, **loghost**, and **emhost**). For more details on editing the Local Hosts, see the Unified Build System Administrator's Guide. Once you have entered the hosts you need, make the EM Server, DB Server, and any other machines desired into **TRUSTED** hosts, using the following procedures:
 - a. From the Network menu, choose Edit Local Hosts. The EDIT HOSTS window appears.

- b. For each of the machines which are to be designated as trusted hosts on your LAN, highlight the IP address which corresponds to the host and click EDIT. The EDIT MACHINE window appears. (Note: If a host's IP address does not appear in the list in the EDIT HOSTS window, you may add it by clicking ADD. An ADD MACHINE window, similar to the EDIT MACHINE window, appears.)

- c. In the EDIT MACHINE window, verify the information in the MACHINE NAME: and MACHINE ADDRESS: fields is correct. If the information in these two fields is not correct, edit it by entering the correct information in the NEW MACHINE NAME: and NEW MACHINE ADDRESS: fields.
- d. In the EDIT MACHINE window, click the Trusted Machine checkbox so it is filled (on). This host is now a trusted host for the local machine.
- e. In the EDIT MACHINE window, click ALIASES. The ALIASES window appears.
- f. In the ALIASES window, click ADD. The ADD ALIASES window appears.
- g. Enter the alias you wish to assign to the host and press [Return] to accept the entry.

IMPORTANT: You must press the [Return] key on your keyboard to accept the entered alias. If you click Cancel in the ALIASES window, the alias information will not be saved.

- h. Click OK in the ALIASES window. The ALIASES window closes, returning you to the EDIT MACHINE window.
 - i. Click OK in the EDIT MACHINE window. The EDIT MACHINE window closes, returning you to the EDIT HOSTS window.
 - j. Click OK in the EDIT HOSTS window.
3. Select CHANGE MACHINE ID from the Network pull-down menu. Enter the machine name and its IP address into the appropriate boxes in the lower half of the window. Click Exit. A confirmation box appears indicating that the machine must be rebooted for the changes to take effect. Click OK to reboot.
 4. Login as **sysadmin** (default password **vinson**) and select DISK MANAGER from the Hardware menu. If applicable, use the Disk Manager to mount any additional hard drives.
 5. If the tape has not been previously inserted into the tape drive, insert the GCCS Application tape into the tape drive.
 6. Select SEGMENT INSTALLER from the Software menu.
 7. Install the GCCS COE.
When the GCCS COE segment install is complete, a warning window appears, stating that you must configure the Host/Server settings and reboot the system when the installation is complete. Click okay to dismiss the warning window.
 8. Click OK in the warning window to dismiss it.

9. Configure the TDBM Host and Client(s) settings as follows. For more details on the SysCon window, see the Unified Build System Administrator's Guide:
 - a. From the Network menu, select System Configuration. The SysCon window appears.
 - b. To set the hosts, in the Hosts box (on the left side of the window), click the toggle box beside the host entry you wish to change (starting with Full Host #2).
 - c. Click the Full Host #2 field next to the appropriate toggle box. The field becomes active and is now editable. Enter the name of the host.

NOTE: When entering hostnames, you should enter the name of the local host ("this" machine's hostname) in the Full Host #2 field and any other hosts on the local network (other machines on your local LAN) into the subsequent Full Host fields.

- d. Verify the hostname in the Local Hostname: field. This should be your workstation's hostname.
- e. In the TDBM Master: field, enter the TDBM Server hostname for your workstation.
- f. In the GCCS environment, both the TDBM server and TDBM clients should have the TDBM server hostname in each of the following:

admin	qs
prt	wdbm

NOTE: Typically, in the GCCS environment, both the TDBM server and TDBM clients should have the TDBM server hostname in each of the above fields in the SysCon window. However, to account for diverse configuration capabilities, any hostname may be entered in these fields.

- g. Click OK to save the changes you have made.
10. When the install is complete, use the System Reboot option under the Hardware menu to reboot the system.

WARNING: You must reboot the workstation after the GCCS COE segment is installed. Do not load any additional segments without rebooting the workstation.

NOTE: Ensure that the EM Server is operational before configuring the EXEC MGR application on the HP workstation(s).

11. Insert the tape containing the EXEC MGR segment and install it.
12. When the installation is complete, open an xterm window.
13. At the command prompt in the xterm, enter `cd /h/EM/systools` to change directories to the systools directory. Enter `EM_install` and press [Return] to execute the EM_install program. You will receive several prompts. Respond to them as follows:

The workstation may be configured as one of the following:

1. Executive Manager Standalone
2. Executive Manager Server
3. Executive Manager Client

Enter your choice (1,2,3):

- a. Enter 3 and press [Return] to select the Executive Manager Client option.

You selected Executive Manager Client. Is this correct?
Press [y] for yes or [n] for no, then press [Return]

- b. Enter y and press [Return] to confirm your selection.

Is this machine going to be the master NIS server (y/n)?

- c. Enter y and press [Return] to confirm that this machine is the master NIS server.

You selected this machine to be the NIS server. Is this correct?
Press [y] for yes or [n] for no, then press [Return].

- d. Enter y and press [Return] to confirm that you want this machine to be the master NIS server.

NOTE: The NIS domain name must be different than the NIS+ domain name. (example NIS domain name: hpnis.eucom; example NIS+ domain name: nis.eucom)

If a NIS domain name has already been set on the system, the following text appears after the confirmation in Step d. If a NIS domain name has not already been set on the system, proceed to Step h.

The current NIS domain name is: _____.
Do you wish to enter a new NIS domain name? (y/n)

- e. If you wish to change the domain name, select y and press [Return].

Enter new NIS domain name.

f. Enter the new domain name and press [Return].

If a NIS domain name has not already been set on the system, the following text appears after the confirmation in Step d:

There is no NIS domain name. Specify one now.

Enter the NIS domain name: _____.

g. Enter the new domain name and press [Return].

Continue the EXEC MGR installation configuration procedure as follows:

You selected the NIS domain name of _____. Is this correct?

Press [y] for yes or [n] for no, then press [Return]

h. Enter y and press [Return] to confirm your selection.

Use _____ when asked for a server.

Continue the EXEC MGR installation configuration procedure as follows:

You will be required to answer a few questions to install the Network Information Service.

Do you want this procedure to quit on non-fatal errors? [y/n: n]

i. Enter n and press [Return].

OK, but please remember to correct anything which fails.

If you don't, some part of the system (perhaps the NIS itself) won't work.

At this point, you must construct a list of the hosts which will be

NIS servers for the "<local network domain>" domain.

This machine, '<local machine name>', is in the list of Network Information Service servers.

Please provide the hostnames of the slave servers, one per line.

When you have no more names to add, enter a <ctrl-D> or a blank line.

Next host to add: <NIS server name>

next host to add:

- j. Enter the hostname and press [Return]. To exit the add mode, press [RETURN] again, without entering any data at the prompt.

The current list of NIS servers looks like this:

<NIS server name>

Is this correct? [y/n: y]

- k. Enter y and press [Return] to confirm your selection. Various messages appear. When the EXEC MGR configuration is complete, the command prompt appears.
- l. Type reboot and press [Return].

WARNING: You must reboot the workstation after the Executive Manager segment is installed. Do not load the GCCS COE segments without rebooting the workstation.

- m. Login as sysadmin when the command prompt reappears.
- n. Open an xterm window. In the xterm, enter `cd /h/EM/systools` to change to the systools directory. Enter `yp_make` and press [Return] to execute the yp_make program. The program calls for no operator inputs. When the program is complete and the prompt has returned, close the xterm window.
14. Using the SEGMENT INSTALLER, install the following segments:
- ◆ EM Process Patch
 - ◆ EM Printer
 - ◆ EM Printer Patch
 - ◆ EM Upgrade v 6.0.2
15. The following segments may be selected and installed all at once:
- ◆ JMTK
 - ◆ UBApps
 - ◆ JMCISApps
 - ◆ PRINTER
16. When the segment installation is complete, a warning window appears stating Selected Segment(s) Installed Successfully.
17. Click the EXIT button to dismiss this warning window.

18. Load any additional HP-based GCCS application segments at this time, using the Segment Installer window.

<p>Note: If you wish to do any Elint processing, you must ensure that the machine whose disk serves the /h/data/global/UB directory is loaded with the GCCSSD, Version 2.2.1 segment available on the optional Secret Data tape. Typically, the machine whose disk serves the directory is the EM Server.</p>
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19. On the Segment Installer window, click EXIT to dismiss the window.
20. Using the Logout option under the Hardware menu, log out of the system.

Chapter 6 Workstation Configuration

Once the application segment software load is complete, each workstation must be configured to establish important network functions.

6.1 TDBM Server Configuration

The TDBM Server machine must be configured to establish a WAN UID, configure DDN hosts, and establish communications channels. To configure the TDBM Server:

1. On the TDBM Server, log in as **sysadmin** (default password is **vinson**).
2. From the Network menu, select Set WAN UID. The Set Wan UID window appears.
3. Enter the WAN UID of the system. For detailed instructions, refer to the Unified Build System Administrator's Guide.
4. From the Network menu, select Config DDN Host Table. The Net Hostname Table - Primary window appears.
5. Configure the DDN Host Table. For detailed instructions, refer to Unified Build System Administrator's Guide.

<p>Note: Only TDBM Masters need to be entered into the DDN Host Table. All TDBM Masters with which your site communicates should be entered into the DDN Host Table.</p>

6. Log out of GCCS, using the Logout option on the System menu.
7. Log in as a GCCS user and configure the appropriate UB communications channels. For detailed communications channel configuration instructions, refer to the Unified Build User's Guide.

<p>Note: Only users which have been added via the Security Manager since the load of the HP NIS Server are available for login.</p>
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6.2 Populate the NIS Database from the NIS + Database (NIS Server Only)

On the HP NIS Server, the NIS database must be populated before the workstation configuration is complete. Populate the NIS database as follows:

1. Login as **sysadmin** on the NIS + server (normally the EM Server).
2. Launch an xterm window.

3. Enter the following command to create a file called passwd:

```
niscat passwd.org_dir >/tmp/passwd
```

4. Edit the newly created passwd file as follows:

- a. Enter `vi /tmp/passwd` and press [Return].

- b. Enter `/` (slash).

- c. Enter `cs`h to move to the first instance of csh.

- d. Enter `c$` to edit the remainder of the line.

- e. Enter `cs`h and press [ESC] to change the rest of the line to csh.

- f. Enter `n` to move to the next instance of csh.

- g. Enter `.` (period) to repeat the last command.

- h. Repeat Step f and Step g until all of the extra text after `/bin/csh` for each user is deleted.

- i. Enter `:wq!` when the end of the file is reached.

5. Enter the following command to create a file called group:

```
niscat group.org_dir >/tmp/group
```

6. Transfer the files via FTP from the EM Server to the NIS Sever as follows:

- a. Enter `ftp <HP_NIS_Server_Name>` where `<HP_NIS_Server_Name>` is the name of the HP NIS Server.

- b. Enter `bin`.

- c. Enter `send /tmp/passwd /h/EM/nis_files/passwd`.

- d. Enter `send /tmp/group /h/EM/nis_files/group`.
- e. Enter `quit`.
7. Log out of the EM Server.
8. Log into the HP NIS Server as `sysadmin`.
9. Launch an xterm window.
10. Enter the following command:

`/usr/etc/yp/ypmake DIR=/h/EM/nis_files passwd`
11. Enter the following command:

`/usr/etc/yp/ypmake DIR=/h/EM/nis_files group`
12. Log out of the HP NIS Server.

6.3 UID Correlation Activation (If HP is TDBM Master)

To activate correlation, the TDBM Master on the GCCS LAN must be configured with a valid UID prefix. The three-letter UID “trigraph” must be centrally managed and assigned, likely from the OSF. For information on setting a UID prefix, see the Unified Build System Administrator’s Guide.

IMPORTANT: Do not configure a UID prefix which is inappropriate for your site. The UID prefix must be properly managed to prevent duplication of a UID employed at another site. Duplicate UID prefixes catastrophically affect track correlation.

UID track correlation must be activated on the TDBM Master before the track management features available in the broadcast and some communications channel functions may be fully realized. Activate the UID correlation on the TDBM Master as follows:

1. Login as a GCCS user.
2. From the FOTC/BDCST menu, select FOTC PARAMETERS. The EDIT BGDBM CONFIGURATION window appears.
3. Ensure all fields are clear of any information. In the BGDBM CONFIGURATION box, set the BGDBM MODE diamond knob to UID CORRELATION.
4. Click OK to close the EDIT BGDBM CONFIGURATION window.

5. UID Correlation is now on. As broadcasts and other functions update, track correlation allows GCCS to manage the tracks in the most efficient manner available.